

Russian Armored Route-Clearing Vehicle BAT-2



SYSTEM

Alternative Designations: None
Date of Introduction: 1981
Proliferation: At least 2 countries.
Description:
 Crew: 2+8
 Engineer Capacity: 8
 Chassis: MT-T
 Weight (mt): 39.7
 Length Overall (m): 9.64
 Height Travel (m): 3.69
 Width Overall (m): 4.2
 Clearance (mm): 430
 Gradient (°): INA
 Trench Crossing (m): 2.7
 Fording Depth (m): 1.3
 Vertical Step (m): .8

AUTOMOTIVE

Engine: V-64-4 multi-fuel diesel, 700 hp
Cruising Range (km): 500
Speed (km/h): 60
Navigation Equipment: INA
NBC Protection: Yes
Radio: INA

BLADE

Width (m): Variable. Mounted vertically in front and over the crew cab when not in use.
Bulldozer Position: 4.5
Road Clearing/building: 4.2
Grading: 4.1-4.35

Operating Depth (solid and frozen soil) (m): .5

Operating Speed (km/h):

Road Building:
 Ground Unobstructed: 6-8
 Ground with Trees \leq 30 cm: 2-3
 Snow: 8-15
Hourly Capacity (m³/hr):
 Ditch Digging: 200-250
 Filling in Ditches, Craters, etc: 350-450

CRANE

Capacity (mt): 2
Boom Length (m): 7.3

WINCH

Capacity (mt): 25
Cable Length (m): 100

VARIANTS

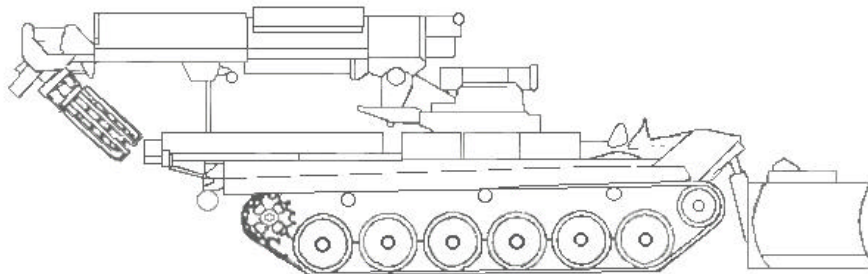
None

NOTES

The BAT-2 is a follow-on to the BAT and BAT-M dozers, but better fits the classification of armored route-clearing vehicle rather than that of a high-speed armored dozer. Its cab is fully armored and it is designed to operate in the forward areas of the battlefield. The windows in the front, sides, and rear are bullet-proof further enhancing battlefield survivability.

The ability to carry an eight-man engineer squad facilitates its role in the movement support detachment. Other BAT-2 missions include road building, obstacle, (stone and wood) removal, and snow removal operations. The vehicle is also designed to operate in urban terrain and as an NBC vehicle. Storage areas for engineer supplies have been designed into the vehicle. The BAT-2 has a crane, a ripper, and a winch.

Russian Obstacle Clearing Vehicle IMR-2M



SYSTEM

Alternative Designations: N/A

Date of Introduction: 1982

Proliferation: FSU and former Warsaw Pact armies

Description:

Crew: 2

Chassis: T-72A

Weight (mt): 44.3

Length (traveling) (m): 9.55

Height (traveling) (m): 3.68

Width (traveling) (m): 3.73

Gradient (°): 25

Fording Depth (m): 1.2

System Components: Multipurpose dozer equipment, boom, treadway mine exploder

AUTOMOTIVE

Engine: 12 cyl, 840 hp, diesel

Cruising Range (km): 500

Speed (km/h): 60

Night Driving Equipment: Yes

Radio: R-173 radio, R-174 intercom

NBC Protection System: Yes

Smoke Screening System: INA

BLADE

Can be used as a dozer, grader and V-blade, vertical plane skew ability.

Operating Speed (bulldozer) (km/h): 8-12

Earth Displacement (m³/hr): 300

Lane Clearing Rate (km): .35

ALL-PURPOSE TOOL

Trench Digging (1.1 to 1.3m deep)(m³/hr): 8-10

Pit Digging (up to 2.5m deep) (m³/hr): 12-16

BOOM

Capacity (mt): 2

Reach (m): 8.4

MINE SWEEPING SPEED (km):

AT pressure mines: 6-15

Tilt Rod mines: 7

VARIANTS

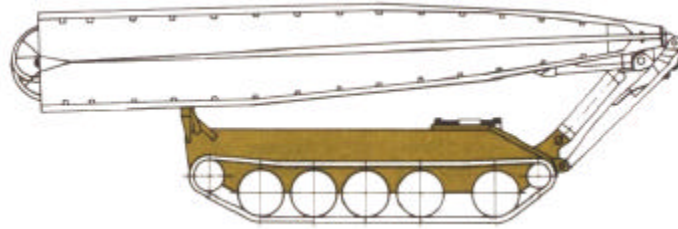
IMR: The IMR is a NBC-protected, combat engineer vehicle based on the T-54/55 tank chassis. It is fitted with an articulating dozer blade and a telescoping crane that fits a number of attachments.

IMR-2: Equipped with mine sweepers and mine-clearing extended charges. Line drawing is of IMR-2.

NOTES

The IMR-2M differs from the IMR-2 in that the IMR-2M has no line-launched mineclearing charge. The IMR-2M has more armor, hydraulic equipment and a scraper-ripper.

Czechoslovak Armored Vehicle-Launched Bridge MT-55A



SYSTEM

Alternative Designations: None
Date of Introduction: 1970
Proliferation: At least 20 countries.

Description:

Crew: 2
 Chassis: T-55A Tank (modified)
 Weight (mt): 36
 Length with Bridge (m): 9.90
 Height with Bridge (m): 3.35
 Width with Bridge (m): 3.30
 Ground Clearance (mm): 425
 Gradient (°): 30
 Fording Depth (m): 1.4
 Vertical Step (m): .7
 Trench (m): 2.7

VARIANTS

None

AUTOMOTIVE

Engine: V-12 Diesel, 580 hp
Cruising Range (km): 690
Speed (km/h):
 Max Road: 32-35
 Average Cross-Country: 16-20
Radio: R-123
Self-Entrenching Blade: No
NBC Protection System: Yes
Smoke Equipment: Vehicle engine exhaust smoke system.

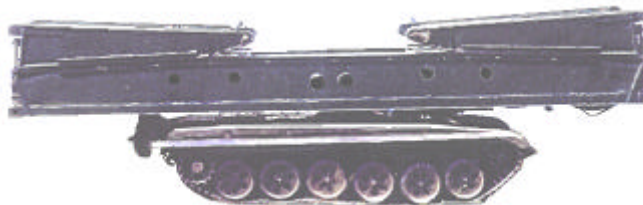
BRIDGE

Type: Scissors
Capacity (mt): 50
Width of Obstacle (m): 17
Width (m): 3.3
Length Opened (m): 18
Weight (kg): 6.5
Emplacement Time (min): 2
Displacement Time (min): 5-6

NOTES

The MT-55A has a gap measuring device and infrared equipment for bridge-laying at night. It can also launch the MT-72 bridge.

Russian Armored Vehicle-Launched Bridge MTU-72



SYSTEM

Alternative Designations: None
Date of Introduction: 1974
Proliferation: At least one country.
Description:
Crew: 2, Commander and driver
Chassis: T-72S
Weight (mt): 40
Length with bridge (m): 11.64
Height with bridge (m): 3.38
Width with bridge (m): 3.46
Ground Clearance (mm): 49
Gradient (°): 31
Side Slope (°): 22
Fording Depth (m): 1.2
Vertical Step (m): .85
Trench (m): 2.8

VARIANTS

None

AUTOMOTIVE

Engine: 840 hp Diesel
Cruising Range (km): 500
Speed (km/h):
Max Road: 60
Max Off-Road: 45
Average Cross-Country: 35
Radio: R-173 and R-134
Self-Entrenching Blade: Yes
NBC Protection System: Yes
Smoke Equipment: Vehicle engine exhaust smoke system.

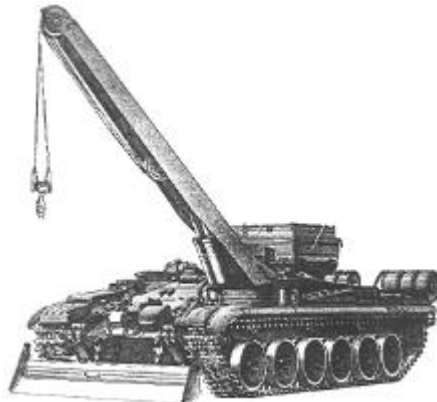
BRIDGE

Type: Cantiliver
Capacity (mt): 50
Width of Obstacle (m): 18
Width (m): 3.55
Length Opened (m): 20
Weight (kg): 6,400
Emplacement Time (min): 3
Displacement Time (min): 8

NOTES

The crew is armed with a light machine gun, a submachine gun, and hand grenades for protection.

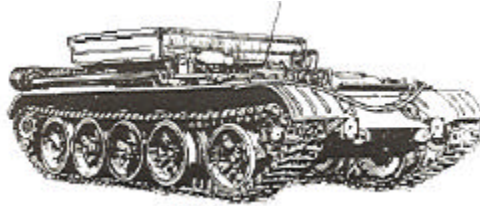
Russian Armored Recovery Vehicle BREM-1

	Weapons & Ammunition Types 12.7-mm AD MG	Typical Combat Load 840
SYSTEM Alternative Designations: None Date of Introduction: 1984 Proliferation: At least 5 countries. Description: Crew: 3 (see NOTES) Chassis: T-72 tank Weight (mt): 41 Length Overall (m): 7.98 Height Travel (m): 2.45 Width Overall (m): 3.46 Clearance (mm): 457 Gradient (°): 30 Trench Crossing (m): 2.8 Fording Depth (m): 1.2 Vertical Step (m): .85 AUTOMOTIVE Engine: V-12 Multi-fuel Diesel, 840 hp Cruising Range w/external tanks (km): Dirt Road w/o Towed Vehicle: 650 Dirt Road Towing Vehicle: 220-430 Highway w/o Towed Vehicle: 700 Speed (km/h): Max Highway: 60 Dirt Road: 45 Towing Tank on Dirt Road: 12 Smoke Equipment: Vehicle engine exhaust smoke system (VEESS). Four smoke grenade launchers may be fitted. NBC Protection: Yes Radio: R-123 BLADE Width (m): 3.1	CRANE Capacity (mt): 2 m Extension: 19 4.4 m (max) Extension: 3 Boom Length (max) (m): 4.4 WINCH Capacity (mt): Line Pull: 25 With Blocks: 100 Cable Length (m): 200 Auxiliary Wench: Capacity (line pull) (kg): 530 Cable Length (m): 400 TOWING Capacity (mt): 50 Towing Rods: Two 1.68 m Two 5.5 m Hydraulic Jack Capacity (mt): 30 ARMAMENT Caliber, Type, Name: 12.7-mm, AD MG NSV-T Mount Type: Cupola Max Effective Range (m): AA: 1,500 Ground: 2,000 Fire on Move: Yes VARIANTS None	

NOTES

The BREM-1 is designed to tow damaged tanks from the battlefield to damaged vehicle collection points. It has a crew of three—commander, driver, and mechanic. Instead of a turret it has a rectangular platform on top of the hull for work and loading.

Russian Armored Recovery Vehicle T-54-T



SYSTEM

Alternative Designations: BTS-2 (Medium Tank Towing Vehicle-2)

Date of Introduction: 1965

Proliferation: At least 50 countries

Description:

Crew: 3 to 5

Chassis: T-54

Weight (mt): 36

Length (m): 7.5

Height (m): 1.9

Width (m): 3.27

Clearance (mm) 264

Gradient (°): 31

Trench Crossing (m): 2.7

Fording Depth (m):

Unprepared: 1.4

With Snorkel: 5.5

Vertical Step (m): .8

AUTOMOTIVE

Engine: V-12 Diesel, 520 hp

Cruising Range (km): 400

Speed (km/h): 48

Smoke Equipment: Vehicle engine exhaust smoke system.

NBC Protection: No. (see VARIANTS)

Radio: INA

CRANE CAPACITY (mt): 1

TOWING CAPACITY (mt): At least 40

ARMAMENT

None

VARIANTS

There are numerous variants based on T-54 and T-55 chassis each with differing equipment modifications.

T-54 (A): Former East German manufacture. Push/pull bar at front, 1 mt crane, NBC equipment, no winches or spades.

T-54 (B): Former East German manufacture. Similar to T-54 (A). Tow cables brackets at hull rear, hull front protective plate, snorkel. No winch or spade.

T-54 (C): Former East German manufacture. Heavy-duty crane, snorkel.

NOTES

The T-54-T armored recovery vehicles are based on modified chassis of the T-54 medium tank. The recovery vehicle variants have a crane able to lift up to 3 mt, a loading platform, and a spade on the rear of the vehicle. They can mount a snorkel for deep fording. Performance figures are the same for the T-54 (and T-55) tanks. They replaced older tank recovery vehicles based on the T-34 chassis.